AMENDED IN SENATE APRIL 25, 2005 AMENDED IN SENATE FEBRUARY 28, 2005

SENATE BILL

No. 1

Introduced by Senators Murray and Campbell (Coauthors: Senators Alquist, Chesbro, Ducheny, and Kehoe) (Coauthors: Assembly Members Bermudez, Chan, Huff, Laird, Leno, Lieber, Maze, Pavley, and Wolk)

December 6, 2004

An act to add Sections 25405.5 and 25405.6 to, and to add Chapter 8.8 (commencing with Section 25780) to Division 15 of, the Public Resources Code, and to add Sections 379.8, 387.5, and 760 and 387.5 to the Public Utilities Code, and to amend Sections 73, 17053.84, and 23684 of the Revenue and Taxation Code, relating to solar energy, and making an appropriation therefor.

LEGISLATIVE COUNSEL'S DIGEST

- SB 1, as amended, Murray. Energy: renewable energy resources: Million Solar Roofs Initiative.
- (1) Existing law requires the State Energy Resources Conservation and Development Commission (Energy Commission) to expand and accelerate development of alternative sources of energy, including solar resources. Existing law requires the Energy Commission, until January 1, 2006, and to the extent that funds are appropriated for that purpose in the annual Budget Act, to implement a grant program to accomplish specified goals, including making solar energy systems cost competitive with alternate forms of energy.

Under existing law, the Public Utilities Commission (PUC) has regulatory authority over public utilities, including electrical corporations. The existing Public Utilities Act requires the PUC to require Pacific Gas and Electric Company, San Diego Gas and

 $SB 1 \qquad \qquad -2-$

Electric, and Southern California Edison to identify a separate electrical rate component to fund programs that enhance system reliability and provide in-state benefits. This rate component is a nonbypassable element of local distribution and collected on the basis of usage. The funds are collected to support cost-effective energy efficiency and conservation activities, public interest research and development not adequately provided by competitive and regulated markets, and renewable energy resources.

This bill would establish the Million Solar Roofs Initiative. administered by the Energy Commission, with the goals of placing 1,000,000 solar energy systems, as defined, on new and existing residential and commercial customer sites, or its generation capacity equivalent of 3,000 megawatts, establishing a self-sufficient solar industry in 10 years, and placing solar energy systems on 50% of new home developments in 13 years. The bill would establish the Million Solar Roofs Initiative Trust Fund and would continuously appropriate provide that, upon appropriation by the Legislature, moneys deposited into the fund-to may be expended by the Energy Commission for purposes of carrying out the Million Solar Roofs Initiative. The program would require the Energy Commission to award incentives, pursuant to a declining schedule to be adopted by the Energy Commission, and would authorize certain other incentive programs, to support the installation of eligible solar energy systems. The bill would require the Energy Commission to establish eligibility criteria for solar energy systems and to establish conditions for incentives. The bill would require the Energy Commission to adopt guidelines governing the program at a publicly noticed meeting.

This bill would require that the PUC, on or before February 1, 2006, and in consultation with the Energy Commission, issue an order opening a proceeding, or expanding the scope of an existing proceeding, to adopt, implement, and finance a comprehensive solar energy program to invest in and encourage the increased installation of residential and commercial solar energy systems, with the goal of placing solar energy systems on 1,000,000 residential and commercial customer sites or its equivalent of 3,000 megawatts of solar generating capacity, by December 31, 2018. The bill would require funding of the Million Solar Roofs Initiative to be an element of the program adopted by the PUC. The bill would require that the reasonable cost of the program be included in the distribution revenue requirements of electrical corporations. The bill would require that the program

-3- SB 1

adopted by the PUC be a cost-effective investment by ratepayers in peak electricity generation capacity that enables ratepayers to recoup the cost of their investment through lower rates as a result of avoiding purchases of electricity at peak rates generated by traditional generation resources. The bill would require the PUC to adopt the program no later than January 1, 2007.

This bill would require all local publicly owned electric utilities, as defined, to establish a solar roofs initiative consistent with the program adopted and implemented by the PUC, within a reasonable time after the PUC establishes any program for electrical corporations. All local publicly owned electric utilities would be required to report, on an annual basis, to its customers and to the Energy Commission, information relative to the utility's solar roofs initiative and would authorize the Energy Commission to establish guidelines for the information to be included in the utility's annual report. By imposing additional duties upon local publicly owned electric utilities, the bill would thereby impose a state-mandated local program.

(2) Existing law requires all electric service providers, as defined, to develop a standard contract or tariff providing for net energy metering, and to make this contract available to eligible customer generators, upon request. Existing law requires all electric service providers, upon request, to make available to eligible customer generators contracts for net energy metering on a first-come-first-served basis until the time that the total rated generating capacity used by eligible customer generators exceeds 0.5% of the electric service provider's aggregate customer peak demand.

This bill would, notwithstanding these requirements, require the PUC to order-electrical corporations electric service providers to expand the availability of net energy metering so that it is offered on a first-come-first-served basis until the time that the total rated generating capacity used by all eligible customer-generators exceeds 0.5% 5% of the electrical corporation's total electricity sales electric service provider's aggregate custom peak demand.

(3) Existing law authorizes the PUC to fix the rates and charges for every public utility, and requires that those rates and charges be just and reasonable.

This bill would require the PUC, in collaboration with the Energy Commission, to develop time-variant electricity pricing tariffs for all

SB 1 —4—

eustomers that are not subject to mandatory time-variant pricing, including net-metered eustomers.

(4) Existing law requires the Energy Commission to expand and accelerate development of alternative sources of energy, including solar resources

This bill would require that beginning January 1, 2010, a seller of production homes, as defined, offer the option of a solar energy system, as defined, to all customers negotiating to purchase a new production home constructed on land meeting certain criteria and to disclose certain information. The bill would require that not later than July 1, 2009, the Energy Commission initiate a public proceeding and make findings if and under what conditions solar energy systems are to be required on new residential and nonresidential buildings.

(4) The Personal Income Tax Law and the Bank and Corporation Tax Law authorize various credits against the taxes imposed by those laws. Existing law allows a credit against those taxes for taxable years beginning on and after January 1, 2004, and before January 1, 2006, for certain amounts relating to the use of solar or wind energy systems, as defined.

This bill would make that credit applicable for taxable years beginning on and after January 1, 2004, and before January 1, 2017.

(5) Existing property tax law, until January 1, 2006, provides that, for property tax lien dates for the 1999–2000 to 2004–05 fiscal years, inclusive, the term "newly constructed" as used in the California Constitution does not include the construction or addition of any active solar energy system, as defined.

This bill would continue that exclusion for an active solar energy system, as defined, until January 1, 2018, for property tax lien dates for the 1999–2000 to 2016–17 fiscal years, inclusive. By requiring local taxing authorities to perform duties with regard to the continuation of the active solar energy system exclusion, the bill would impose a state-mandated local program.

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(6) Under existing law, a violation of the Public Utilities Act or an order or direction of the PUC is a crime.

Various provisions of this bill are within the act and require action by the PUC to implement the bill's requirements. Because a violation of those provisions or of PUC actions to implement those provisions would be a crime, this bill would impose a state-mandated local program by creating new crimes. _5_ SB 1

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(7) The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for specified reasons.

Vote: $\frac{2}{3}$ -majority. Appropriation: $\frac{1}{3}$ -mo. Fiscal committee: yes. State-mandated local program: yes.

The people of the State of California do enact as follows:

- 1 SECTION 1. Section 25405.5 is added to the Public 2 Resources Code, to read:
 - 25405.5. (a) As used in this section, the following terms have the following meanings:
 - (1) "kW" means kilowatts or 1,000 watts, as measured from the alternating current side of the solar energy system inverter consistent with Section 223 of Title 15 of the United States Code.
 - (2) "Production home" means a single family residence constructed as part of a development of at least 50 homes per project that is intended or offered for sale.
 - (3) "Solar energy system" means a photovoltaic solar collector or other photovoltaic solar energy device that has a primary purpose of providing for the collection and distribution of solar energy for the generation of electricity, and that produces at least 1 kW, but not more than 1 megawatt, alternating current rated peak electricity.
 - (b) A seller of production homes shall offer a solar energy system option to all customers that enter into negotiations to purchase a new production home constructed on land for which an application for a tentative subdivision map has been deemed complete on or after January 1, 2010, and disclose the following:
 - (1) The total installed cost of the solar energy system option.
 - (2) The estimated cost savings associated with the solar energy system option, as determined by the commission pursuant to Chapter 8.8 (commencing with Section 25780) of Division 15.
- SEC. 2. Section 25405.6 is added to the Public Resources Code, to read:

SB 1 -6-

25405.6. Not later than July 1,—2009 2006, the commission shall initiate a public proceeding and make findings if and under what conditions solar energy systems shall be required on new residential and new nonresidential buildings, including the establishment of numerical targets. For purposes of this section, a solar energy system means a photovoltaic solar collector or other photovoltaic solar energy device that has a primary purpose of providing for the collection and distribution of solar energy for the generation of electricity.

SEC. 3. Chapter 8.8 (commencing with Section 25780) is added to Division 15 of the Public Resources Code, to read:

CHAPTER 8.8. MILLION SOLAR ROOFS INITIATIVE

- 25780. The Legislature finds and declares all of the following:
- (a) California has a pressing need to procure a steady supply of affordable and reliable peak electricity.
- (b) Solar generated electricity is uniquely suited to California's needs because it produces electricity when California needs it most, during the peak demand hours in summer afternoons when the sun is brightest and air conditioners are running at capacity.
- (c) Procuring solar electric generation capacity to meet peak electricity demand increases system reliability and decreases California's dependence on unstable fossil fuel supplies.
- (d) Solar generated electricity diversifies California's energy portfolio. California currently relies on natural gas for the bulk of its electricity generation needs. Increasing energy demands place increasing pressure on limited natural gas supplies and threaten to raise costs.
- (e) More than 150,000 homes will be built annually in California in the coming years, challenging energy reliability and affordability.
- (f) Investing in residential and commercial solar electricity generation installations today will lower the cost of solar generated electricity for all Californians in the future. In 10 years, solar peak electric generation can be procured without the need for rebates.

7 SB 1

(g) Increasing California's solar electricity generation market will also bring additional manufacturing, installation, and sales jobs to the state at a higher rate than most conventional energy production sources.

- (h) Funding a Million Solar Roofs Initiative is a cost-effective investment by ratepayers in peak electricity generation capacity and ratepayers will recoup the cost of their investment through lower rates as a result of avoiding purchases of electricity at peak rates, with additional system reliability and pollution reduction benefits.
- (i) Solar energy systems provide substantial energy reliability and pollution reduction benefits. Solar energy systems also diversify our energy supply and thereby reduce our dependence on imported fossil fuels.
- 25781. As used in this chapter, the following terms have the following meanings:
- (a) "kW" means kilowatts or 1,000 watts, as measured from the alternating current side of the solar energy system inverter consistent with Section 223 of Title 15 of the United States Code.
- (b) "kWh" means kilowatthours, as measured by the number of kilowatts generated in an hour.
 - (c) "MW" means megawatts or 1,000,000 watts.
- (d) "Solar energy system" means a photovoltaic solar collector or other photovoltaic solar energy device that has a primary purpose of providing for the collection and distribution of solar *electrical* energy for the generation of electricity, and that produces at least 1 kW alternating current rated peak electricity.
- (e) "Million Solar Roofs Initiative" means the program established by this chapter.
- 25782. (a) The commission shall develop and implement a multiyear Million Solar Roofs Initiative to provide funding and support to foster the installation of solar energy systems on new and existing residential and commercial customer sites in California. The goals of this program are the placement of solar energy systems on 1,000,000 residential and commercial sites, or its generation capacity equivalent of 3,000 MW, the establishment of a self-sufficient solar industry in which solar energy systems are a viable mainstream option for both homes and businesses in 10 years, and the placement of solar energy systems on 50 percent of new homes in 13 years.

-8-

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 (b) All funds used for the Million Solar Roofs Initiative shall be expended in accordance with the following:

- (1) The commission shall award monetary incentives for eligible solar energy systems not to exceed the existing level of incentive in effect on January 1, 2006. The incentive level shall decline each year thereafter at a rate of no less than 7 percent per year and shall be zero as of December 31, 2016. The commission shall adopt and publish a schedule of declining incentive levels no less than 60 days in advance of the first decline in incentive levels.
- (2) Notwithstanding paragraph (1), the commission may increase the incentive level by not more than 50 percent above the maximum incentive level established pursuant to paragraph (1) for solar energy systems that are installed on "zero energy homes" or "zero energy commercial structures." Prior to an increase in the incentive level, the commission shall adopt definitions for "zero energy homes" and "zero energy commercial structures" through a public process, including at least one public hearing with not less than 30 days' notice.
- (3) Notwithstanding paragraph (1), the commission may increase the incentive level by not more than 25 percent above the maximum incentive level established pursuant to paragraph (1) for solar energy systems that are installed on homes or commercial structures that exceed the commission's established building standards by a specified percentage as determined by the commission.
- (4) Awards shall be made for the installation of eligible solar energy systems on new or existing residential and commercial customer sites that are or will be receiving electrical distribution service from an electrical corporation that is contributing funds to support the Million Solar Roofs Initiative pursuant to Section 379.8 of the Public Utilities Code.
- (5) Awards shall not be made for eligible solar energy systems installed on the premises of individuals or entities that are not contributing funds to support the Million Solar Roofs Initiative.
- (c) The commission shall establish eligibility criteria for solar energy systems, including the following:
- (1) The solar energy system is intended primarily to offset part or all of the consumer's own electricity demand.

-9- SB 1

(2) All components in the solar energy system are new and unused, and have not previously been placed in service in any other location or for any other application.

- (3) The solar energy system has a warranty of not less than 10 years to protect against defects and undue degradation of electrical generation output.
- (4) The solar energy system is located on the same premises of the end-use consumer where the consumer's own electricity demand is located.
- (5) The solar energy system is connected to the electrical corporation's electrical distribution system within the state.
- (6) The solar energy system has meters or other devices in place to monitor and measure the system's performance and the quantity of electricity generated by the system.
- (d) The commission—may shall establish conditions on incentives that require or encourage all of the following:
- (1) Appropriate siting and high quality installation of the solar energy system by developing installation guidelines that maximize the performance of the system and prevent qualified systems from being inefficiently or inappropriately installed. The goal of this paragraph is to achieve efficient installation of solar energy systems to promote the greatest energy production per ratepayer dollar.
- (2) Optimal solar energy system performance during periods of peak electricity demand, including the use of advanced metering systems, onsite performance meters, dispatchable battery backup systems, and performance based incentives.
- (3) Appropriate energy efficiency improvements in the new or existing home or commercial structure where the solar energy system is installed.
- (4) Rate equipment, components, and systems to assure reasonable performance and to develop standards that provide for compliance with the minimum ratings.
- (e) The commission may limit the amount of funds available for any system or project of multiple systems and reduce the level of funding for any system or project of multiple systems that has received, or may be eligible to receive, any other government or utility funding, incentive, or credit, except for any income or property tax credit or exemption.

SB 1 -10-

(f) The commission may provide proportional program support, not to exceed 10 percent of the overall funds for the Million Solar Roofs Initiative, for installation of solar energy systems on affordable housing projects undertaken pursuant to Section 50052.5, 50053, or 50199.14 of the Health and Safety Code. If deemed appropriate in consultation with the California Tax Credit Allocation Committee, the commission may establish a revolving loan or loan guarantee program for affordable housing projects consistent with the requirements of Chapter 5.3 (commencing with Section 25425).

- (g) Pursuant to this chapter, the commission may provide incentives in the form of a monetary incentive or its equivalent to purchasers, lessees, lessors, or sellers of an eligible solar energy system. The incentive shall benefit the end-use consumer by directly and exclusively reducing the purchase or lease cost of the eligible solar energy system, or the cost of electricity produced by the eligible solar energy system. Incentives shall be issued on the basis of the rated electrical capacity of the system measured in watts, or in the electricity production of the system, measured in kW, as determined by the commission.
- 25783. In administering the Million Solar Roofs Initiative, the commission shall do all the following:
- (a) Examine and implement, to the extent appropriate, financing options that could lower solar energy system financing costs to residential and commercial customers. The commission shall examine wholesale and retail mortgage markets, and other issues that it deems appropriate.
- (b) Acquire, if the commission determines it necessary, appropriate technical and administrative services or expertise to support the Million Solar Roofs Initiative. The commission may award contracts to develop or administer all or a portion of the Million Solar Roofs Initiative.
- (c) Publish educational materials designed to demonstrate how builders may incorporate—those solar energy systems during construction as well as energy efficiency measures that best complement solar energy systems.
- (d) Develop and publish the estimated annual electrical generation and savings for solar energy systems. The estimates shall vary by climate zone, type of system, size, lifecycle costs,

-11- SB 1

electricity prices, and other factors the commission determines to be relevant to a consumer when making a purchasing decision.

- (e) Provide assistance to builders and contractors in support of the Million Solar Roofs Initiative. The assistance may include technical workshops, training, educational materials, and related research.
- (f) Publish, and make available to the public, at least once annually, the balance of funds available for the Million Solar Roofs Initiative and the percentage of new and existing residential and commercial customer sites that are equipped with solar energy systems funded by the Million Solar Roofs Initiative.
- (g) Develop an offset program that allows a developer or seller of production homes to forego the offer requirement of Section 25405.5 on one project, by installing solar energy systems generating specified amounts of electricity on other projects. The amount of electricity required to be generated from solar energy systems used as an offset pursuant to this subdivision, shall be equal to the amount of electricity generated by solar energy systems installed on a similarly sized project within that climate zone, assuming 20 percent of the prospective buyers would have installed solar energy systems.
- 25784. (a) The commission shall adopt guidelines governing the Million Solar Roofs Initiative authorized under this chapter, at a publicly noticed meeting offering all interested parties an opportunity to comment. Not less than 30 days' public notice shall be given of the meeting required by this section, before the commission initially adopts guidelines. Substantive changes to the guidelines shall not be adopted without at least 10 days' written notice to the public. Notwithstanding any other provision of law, any guidelines adopted pursuant to this chapter shall be exempt from the requirements of Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code.
- (b) Funds to further the purposes of this chapter may be committed for multiple years.
- 25785. (a) The Million Solar Roofs Initiative Trust Fund is hereby created in the State Treasury.
- 39 (b) The money in the fund may be expended to implement and 40 support the Million Solar Roofs Initiative pursuant to this chapter

SB 1 -12-

and may be used for the commission's administration only upon appropriation by the Legislature in the annual Budget Act.

- (c) Revenues collected by electrical corporations pursuant to Section 379.8 of the Public Utilities Code shall be transmitted to the commission at least quarterly for deposit in the Million Solar Roofs Initiative Trust Fund. After setting aside in the fund money that may be needed for expenditures authorized by subdivision (b), the *The* Treasurer shall immediately deposit money received pursuant to this section into the Million Solar Roofs Initiative Trust Fund for the current calendar year. Notwithstanding Section 13340 of the Government Code, the money in the fund is hereby continuously appropriated to the commission without regard to fiscal year for the purposes enumerated in this chapter.
- (d) Upon appropriation by the Legislature and notification by the commission, the Controller shall pay all awards of the money in the fund for purposes enumerated in this chapter. The eligibility of an award shall be determined solely by the commission based on the procedures it adopts under this chapter. Based on the eligibility of an award, the commission shall also establish the need for a multiyear commitment to any particular award and so advise the Department of Finance. An eligible award submitted by the commission to the Controller shall be accompanied by a summary description of how payment of the award furthers the purposes enumerated in this chapter, and an accounting of future costs associated with any award or group of awards known to the commission to represent a portion of a multiyear funding commitment.
- SEC. 4. Section 379.8 is added to the Public Utilities Code, to read:
- 379.8. (a) Notwithstanding any other law, on or before February 1, 2006, the commission, in consultation with the State Energy Resources Conservation and Development Commission, shall initiate a new proceeding or expand the scope of an existing proceeding to adopt, implement, and finance a comprehensive solar energy program to invest in and encourage the increased installation of residential and commercial solar energy systems in the state. The goal of the program is placing solar energy systems on one million residential and commercial customer sites or its equivalent of 3,000 MW solar generating capacity in the state by December 31, 2018.

-13- SB 1

(b) The commission's proceeding shall do all of the following:

- (1) Evaluate current programs of the commission and the State Energy Resources Conservation and Development Commission to determine the level of additional funding needed to adequately support the goal of placing solar energy systems on one million residential and commercial customer sites or its equivalent of 3,000 MW solar generating capacity in the state by December 31, 2018.
- (2) Encourage participation by a broad and diverse range of interests from all areas of the state, and interested state entities.
- (c) The commission shall include the reasonable cost of the program in the distribution revenue requirements of electrical corporations.
- (d) Notwithstanding any other provision of law, any charge imposed to fund the programs adopted and implemented pursuant to this section shall be imposed upon all customers, including those residential customers subject to the rate cap required by Section 80110 of the Water Code for existing baseline quantities or usage up to 130 percent of existing baseline quantities of electricity.
- (e) The commission shall adopt the program no later than January 1, 2007.
- (f) The program adopted by the commission pursuant to this section, shall do all of the following:
- (1) Be a cost-effective investment by ratepayers in peak electricity generation capacity that enables ratepayers to recoup the cost of their investment through lower rates as a result of avoiding purchases of electricity at peak rates generated by traditional powerplants and peaker generation units, with additional system reliability and pollution reduction benefits.
- (2) Utilize the most cost-effective administrative mechanism to adequately accomplish the goals of the program.
- (3) Provide a predictable long-term funding mechanism sufficient to encourage adequate investment by the solar industry.
- (4) Make time-variant pricing available for all ratepayers with a solar energy system, upon adoption of time-variant pricing tariffs pursuant to Section 760. The commission shall structure any time-variant pricing so that ratepayers receive due value for their contribution to the purchase of solar energy systems and

SB 1 -14-

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customers with solar energy systems continue to have an incentive to use electricity efficiently.

- (5) Require San Diego Gas and Electric Company, Southern California Edison Company, and Pacific Gas and Electric Company to each designate at least one employee to be accountable for solar energy system installations and operations.
- (6) Require San Diego Gas and Electric Company, Southern California Edison Company, and Pacific Gas and Electric Company to each monitor and report key solar program performance and progress data to the commission in a clearly identified place on the utility's Internet Web site.
- (7) Consider energy efficiency and demand side management options, in addition to solar energy system procurement, for new residential and commercial construction.
- (8) Notwithstanding Section 2827, require—electrical eorporations an electric service provider to expand the availability of net energy metering so that it is offered on a first-come-first-served basis until the time that the total rated generating capacity used by all eligible customer-generators exceeds 5 percent of the electrical corporation's total electricity sales electric service provider's aggregate customer peak demand. However, the net metering cap shall not exceed 2 percent until the commission has established an appropriate net metering time-variant rate design that considers the costs to all net metering participants and ratepayers as a whole and that considers the recovery of the fixed costs of providing distribution service to customers. The commission shall monitor the level of net energy metering for each electrical corporation to ensure that the cap is increased in a timely manner as needed to further the objectives of this section.
- (9) The commission may impose the requirements of this subdivision on an electrical corporation in addition to those specified, when and to the extent the commission determines this to be appropriate.
- (g) The program adopted by the commission pursuant to this section shall also include elements for the purpose of funding a Million Solar Roofs Initiative by the State Energy Resources Conservation and Development Commission pursuant to Chapter 8.8 (commencing with Section 25780) of Division 15 of the Public Resources Code. These program elements shall exclude

-15- SB 1

1 customers participating in the State Energy Resources 2 Conservation and Development Commission's Million Solar 3 Roofs Initiative from the rate cap for residential customers for 4 existing baseline quantities or usage by those customers of up to 5 130 percent of existing baseline quantities, as required by Section 6 80110 of the Water Code.

SEC. 5. Section 387.5 is added to the Public Utilities Code, to read:

- 387.5. (a) The governing body of a local publicly owned electric utility, as defined in Section 9604, shall establish a comprehensive solar roofs initiative consistent with programs adopted and implemented by the commission pursuant to Section 379.8.
- (b) The level of expenditure for program elements shall be consistent with those established for the three largest electrical corporations in California, and shall be at a rate proportional to the size of the ratepayer base served by the local publicly owned electric utility.
- (c) A local publicly owned electric utility shall establish the program within a reasonable period of time, but not to exceed six months, after the commission adopts and implements its programs pursuant to Section 379.8.
- (d) A local publicly owned electric utility shall, on an annual basis beginning June 1, 2007, report to its customers and to the State Energy Resources Conservation and Development Commission, information relative to the utility's solar roofs initiative. The State Energy Resources Conservation and Development Commission may establish guidelines for the information to be included in the utility's annual report. Any guidelines established pursuant to this subdivision shall be adopted in the manner specified in Section 25784 of the Public Resources Code. Notwithstanding any other provision of law, any guidelines adopted by the State Energy Resources Conservation and Development Commission pursuant to this subdivision shall be exempt from the requirements of Chapter 3.5 (commencing with Section 11340) of Part—1 of Division 3 of Title 2 of the Government Code.
- Title 2 of the Government Code.
 SEC. 6. Section 760 is added to the Public Utilities Code, to
 read:

SB 1 -16-

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760. The commission, in collaboration with the State Energy Resources Conservation and Development Commission, shall develop optional time-variant electricity pricing tariffs for all customers who are not subject to mandatory time-variant pricing, including net-metered customers.

- SEC. 6. Section 73 of the Revenue and Taxation Code is amended to read:
- 73. (a) Pursuant to the authority granted to the Legislature pursuant to paragraph (1) of subdivision (c) of Section 2 of Article XIII A of the California Constitution, the term "newly constructed," as used in subdivision (a) of Section 2 of Article XIII A of the California Constitution, does not include the construction or addition of any active solar energy system, as defined in subdivision (b).
- (b) (1) "Active solar energy system" means a system that uses solar devices, which are thermally isolated from living space or any other area where the energy is used, to provide for the collection, storage, or distribution of solar energy.
- (2) "Active solar energy system" does not include solar swimming pool heaters or hot tub heaters.
- (3) Active solar energy systems may be used for any of the following:
- (A) Domestic, recreational, therapeutic, or service water heating.
 - (B) Space conditioning.
 - (C) Production of electricity.
- (D) Process heat.
- 28 (E) Solar mechanical energy.
 - (c) (1) (A) The Legislature finds and declares that the definition of spare parts in this paragraph is declarative of the intent of the Legislature, in prior statutory enactments of this section that excluded active solar energy systems from the term "newly constructed," as used in the California Constitution, thereby creating a tax appraisal exclusion.
 - (B) An active solar energy system that uses solar energy in the production of electricity includes storage devices, power conditioning equipment, transfer equipment, and parts related to the functioning of those items. In general, the use of solar energy in the production of electricity involves the transformation of sunlight into electricity through the use of devices—such—as,

—17— SB 1

including solar cells or other collectors. However, an active solar energy system used in the production of electricity includes only equipment used up to, but not including, the stage of the transmission or use of the electricity. For the purpose of this paragraph, the term "parts" includes spare parts that are owned by the owner of, or the maintenance contractor for, an active solar energy system that uses solar energy in the production of electricity and which spare parts were specifically purchased, designed, or fabricated by or for that owner or maintenance contractor for installation in an active solar energy system that uses solar energy in the production of electricity, thereby including those parts in the tax appraisal exclusion created by this section.

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- (2) An active solar energy system that uses solar energy in the production of electricity also includes pipes and ducts that are used exclusively to carry energy derived from solar energy. Pipes and ducts that are used to carry both energy derived from solar energy and from energy derived from other sources are active solar energy system property only to the extent of 75 percent of their full cash value.
- (3) An active solar energy system that uses solar energy in the production of electricity does not include auxiliary equipment, such as furnaces and hot water heaters, that use a source of power other than solar energy to provide usable energy. An active solar energy system that uses solar energy in the production of electricity does include equipment, such as ducts and hot water tanks, that is utilized by both auxiliary equipment and solar energy equipment, that is, dual use equipment. That equipment is active solar energy system property only to the extent of 75 percent of its full cash value.
- (d) This section shall apply to property tax lien dates for the 1999–2000 to 2004–05 2016-17 fiscal years, inclusive. For purposes of supplemental assessment, this section shall apply only to qualifying construction or additions completed on or after January 1, 1999.
- (e) This section shall remain in effect only until January 1, 2006 2018, and as of that date is repealed, unless a later enacted statute that is enacted before January 1, 2006 2018, deletes or extends that date.

SB 1 -18-

SEC. 7. Section 17053.84 of the Revenue and Taxation Code is amended to read:

17053.84. (a) For each taxable year beginning on or after January 1, 2001, and before January 1, 2004, there shall be allowed as a credit against the "net tax," as defined in Section 17039, an amount equal to the lesser of 15 percent of the cost that is paid or incurred by a taxpayer, after deducting the value of any other municipal, state, or federal sponsored financial incentives, during the taxable year for the purchase and installation of any solar or wind energy system installed on property in this state, or the applicable dollar amount per rated watt of that solar or wind energy system, as determined by the Franchise Tax Board in consultation with the State Energy Resources Conservation and Development Commission.

- (b) For each taxable year beginning on or after January 1, 2004, and before January 1, 2006 2017, there shall be allowed as a credit against the "net tax," as defined in Section 17039, an amount equal to the lesser of 7.5 percent of the cost that is paid or incurred by a taxpayer, after deducting the value of any other municipal, state, or federal sponsored financial incentives, during the taxable year for the purchase and installation of any solar or wind energy system installed on property in this state, or the applicable dollar amount per rated watt of that solar or wind energy system, as determined by the Franchise Tax Board in consultation with the State Energy Resources Conservation and Development Commission.
 - (c) For purposes of this section:
- (1) "Applicable dollar amount" means four dollars and fifty cents (\$4.50) for any taxable year beginning on or after January 1, 2001, and before January 1, 2006 2017.
- (2) "Solar energy system" means a solar energy device, in the form of a photovoltaic system, with a peak generating capacity of up to, but not more than 200 kilowatts, used for the individual function of generating electricity, that is certified by the State Energy Resources Conservation and Development Commission and installed with a five-year warranty against breakdown or undue degradation.
- (3) "Wind energy system" means a wind energy conversion system consisting of a wind turbine, a tower, and associated control or conversion electronics, with a peak generating capacity

—19— SB 1

of up to, but not exceeding, 200 kilowatts, use for the individual function of generating electricity, that is certified by the State Energy Resources Conservation and Development Commission and installed with a five-year warranty against breakdown or undue degradation.

- (4) A credit may be allowed under this section with respect to only one solar or wind energy system per each separate legal parcel of property or per each address of the taxpayer in the state.
- (5) No credit may be allowed under this section unless the solar or wind energy system is actually used for purposes of producing electricity and primarily used to meet the taxpayer's own energy needs.
- (d) No other credit and no deduction may be allowed under this part for any cost for which a credit is allowed by this section. The basis of the solar or wind energy system shall be reduced by the amount allowed as a credit under subdivision (a) or (b).
- (e) No credit shall be allowed to any taxpayer engaged in those lines of business described in Sector 22 of the North American Industry Classification System (NAICS) Manual published by the United States Office of Management and Budget, 1997 edition.
- (f) If any solar or wind energy system for which a credit is allowed pursuant to this section is thereafter sold or removed from this state within one year from the date the solar or wind energy system is first placed in service in this state, the amount of credit allowed by this section for that solar or wind energy system shall be recaptured by adding that credit amount to the net tax of the taxpayer for the taxable year in which the solar or wind energy system is sold or removed.
- (g) In the case where the credit allowed by this section exceeds the "net tax," the excess may be carried over to reduce the "net tax" in the following year, and the succeeding seven years if necessary, until the credit is exhausted.
- (h) This section shall remain in effect only until December 1, 2006 2017, and as of that date is repealed.
- SEC. 8. Section 23684 of the Revenue and Taxation Code is amended to read:
- 38 23684. (a) For each taxable year beginning on or after 39 January 1, 2001, and before January 1, 2004, there shall be 40 allowed as a credit against the "tax," as defined in Section 23036,

SB 1 -20-

an amount equal to the lesser of 15 percent of the cost that is paid or incurred by a taxpayer, after deducting the value of any other municipal, state, or federal sponsored financial incentives, during the taxable year for the purchase and installation of any solar or wind energy system installed on property in this state, or the applicable dollar amount per rated watt of that solar or wind energy system, as determined by the Franchise Tax Board in consultation with the State Energy Resources Conservation and Development Commission.

- (b) For each taxable year beginning on or after January 1, 2004, and before January 1, 2006 2017, there shall be allowed as a credit against the "net tax," as defined in Section 17039, an amount equal to the lesser of 7.5 percent of the cost that is paid or incurred by a taxpayer, after deducting the value of any other municipal, state, or federal sponsored financial incentives, during the taxable year for the purchase and installation of any solar or wind energy system installed on property in this state, or the applicable dollar amount per rated watt of that solar or wind energy system, as determined by the Franchise Tax Board in consultation with the State Energy Resources Conservation and Development Commission.
 - (c) For purposes of this section:
- (1) "Applicable dollar amount" means four dollars and fifty cents (\$4.50) for any taxable year beginning on or after January 1, 2001, and before January 1, 2006 2017.
- (2) "Solar energy system" means a solar energy device, in the form of a photovoltaic system, with a peak generating capacity of up to, but not more than 200 kilowatts, used for the individual function of generating electricity, that is certified by the State Energy Resources Conservation and Development Commission and installed with a five-year warranty against breakdown or undue degradation.
- (3) "Wind energy system" means a wind energy conversion system consisting of a wind turbine, a tower, and associated control or conversion electronics, with a peak generating capacity of up to, but not exceeding, 200 kilowatts, used for the individual function of generating electricity, that is certified by the State Energy Resources Conservation and Development Commission and installed with a five-year warranty against breakdown or undue degradation.

__21__ SB 1

(4) A credit may be allowed under this section with respect to only one solar or wind energy system per each separate legal parcel of property or per each address of the taxpayer in the state.

- (5) No credit may be allowed under this section unless the solar or wind energy system is actually used for purposes of producing electricity and is primarily used to meet the taxpayer's own energy needs.
- (d) No other credit and no deduction may be allowed under this part for any cost for which a credit is allowed by this section. The basis of the solar or wind energy system shall be reduced by the amount allowed as a credit under subdivision (a) or (b).
- (e) No credit may be allowed to any taxpayer engaged in those lines of business described in Sector 22 of the North American Industry Classification System (NAICS) Manual published by the United States Office of Management and Budget, 1997 edition.
- (f) If any solar or wind energy system for which a credit is allowed pursuant to this section is thereafter sold or removed from this state within one year from the date the solar or wind energy system is first placed in service in this state, the amount of credit allowed by this section for that solar or wind energy system shall be recaptured by adding that credit amount to the tax of the taxpayer for the taxable year in which the solar or wind energy system is sold or removed.
- (g) In the case where the credit allowed by this section exceeds the "tax," the excess may be carried over to reduce the "tax" in the following year, and the succeeding seven years if necessary, until the credit is exhausted.
- (h) This section shall remain in effect only until December 1, $2006 \ 2017$, and as of that date is repealed.

SEC. 7.

SEC. 9. No reimbursement is required by this act pursuant to Section 6 of Article XIIIB of the California Constitution because the only costs that may be incurred by a local agency or school district will be incurred because this act creates a new crime or infraction, eliminates a crime or infraction, or changes the penalty for a crime or infraction, within the meaning of Section 17556 of the Government Code, or changes the definition of a crime within the meaning of Section 6 of Article XIIIB of the California Constitution.

-22

1 SEC. 8.

 SEC. 10. No reimbursement is required by this act pursuant to Section 6 of Article XIII B of the California Constitution for certain other costs that may be incurred by a local agency or school district because a local agency or school district has the authority to levy service charges, fees, or assessments sufficient to pay for the program or level of service mandated by this act, within the meaning of Section 17556 of the Government Code.

within the meaning of Section 17556 of the Government Code. SEC. 11. No reimbursement is required by this act pursuant to Section 6 of Article XIIIB of the California Constitution because the duties imposed on a local agency or school district by this act were expressly included in a ballot measure approved by the voters in a statewide election, within the meaning of Section 17556 of the Government Code.